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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/019,359	04/11/2002	Zeger Debyser	522-1764	6288
7590 10/20/2003			EXAMINER	
Lee Mann Smith McWilliams			HILL, MYRON G	
Sweeney & Ohlson PO Box 2786 Chicago, IL 60690-2786			ART UNIT	PAPER NUMBER
			1648	
			DATE MAILED: 10/20/2003	6

Please find below and/or attached an Office communication concerning this application or proceeding.

· ·		Application No.	Applicant(s)		
Office Action Summary		10/019,359	DEBYSER ET AL.		
		Examiner	Art Unit		
	•	Myron G. Hill	1648		
	The MAILING DATE of this communication app	•			
Period fo					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status 1)⊠	Responsive to communication(s) filed on 25 C	October 2001 .			
2a)□	·	is action is non-final.			
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) Claim(s) 62-92 is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
·	Claim(s) is/are rejected. Claim(s) is/are objected to.				
•	Claim(s) 62-92 are subject to restriction and/or	r election requirement	•		
•	on Papers	, clocker requirement.	•		
9)☐ The specification is objected to by the Examiner.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
11) The proposed drawing correction filed on is: a) □ approved b) □ disapproved by the Examiner.					
If approved, corrected drawings are required in reply to this Office action.					
12)☐ The oath or declaration is objected to by the Examiner.					
Priority under 35 U.S.C. §§ 119 and 120					
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:					
	1. Certified copies of the priority documents have been received.				
	2. Certified copies of the priority documents have been received in Application No				
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).					
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.					
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)					
J.S. Patent and Tr	rademark Office				

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DETAILED ACTION

Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

- Group I, claim(s) 62- 67, drawn to a method for detecting intracellular integrase activity using a promoterless reporter gene.
- Group II, claim(s) 68- 73, drawn to a method for detecting intracellular integrase activity using a promoterless reporter gene requiring the use of a synthetic retroviral gag or pol gene having modified codons as compared to wildtype and providing a detectactable level of activity of wildtype function.
- Group III, claim(s) 74, drawn to an integrase inhibitor.
- Group IV, claim(s) 75-80, drawn to a packaging construct for a lentiviral or other complex retroviral vector based on a synthetic retroviral pol or gag gene.
- Group V, claim(s) 81-82, drawn to a method to determine preferred codons and construction of a synthetic gene.
- Group VI, claim(s) 83-88, drawn to a synthetic gene or portion of a gag or pol gene.
- Group VII, claim(s) 89, drawn to a method to transfect a eukaryotic cell.
- Group VIII, claim(s) 90, drawn to a eukaryotic cell line or transgenic animal harbouring a

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synthetic gag or pol gene.

Group IX, claim(s) 91 and 92, drawn to a method for gene transfer into a eukaryotic cell expressing a synthetic gag or pol gene.

The inventions listed as Groups I- IX do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

Group I is directed to a method for detecting intracellular integrase activity using a promoterless reporter gene, which is the first method. However, because Katz (Cell 1990, from IDS) discloses the same method (a method to detect integrase activity using an antibiotic resistance gene as a reporter to detect inegration of donor DNA into a target by screening for antibiotic resistance), no special technical feature exists for Group I as defined by PCT Rule 13.2, because it does not define a contribution over the prior art. The technical features of Groups II-IX are drawn to methods having different goals, method steps and starting materials and products that are not required for the practice of group I, which do not require each other for their practice and do not share the same or a corresponding technical feature. Note that PCT Rule 13 does not provide for multiple products or methods within a single application. Because the technical feature of Group I is not a special technical feature, and because the technical features of the Group II-IX inventions are not present in the Group I claims, unity of invention is lacking. Group I does not require an integase inhibitor, a packaging construct, or synthetic gene(s).

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Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is advised that a rejoinder of claims is possible at a later date if the product is eventually found patentable. Guidance on treatment of product and process claims in light of *In re Ochiai, In re Brouwer* and 35 U.S.C. §103(b) is set forth in the Commissioner's Notice of February 28, 1996 published on March 26, 1996 at 1184 O.G. 86.

To facilitate examination under § 103, where product and process claims are presented in the same application, applicant may be called upon under 35 U.S.C. § 121 to elect claims to either the product or process. The claims to the non-elected invention will be withdrawn from further consideration. However, in the case of an elected product claim, rejoinder will be permitted when a product claim is found allowable and the withdrawn process claim depends from or otherwise includes all the limitations of an allowed product claim. Withdrawn process claims not commensurate in scope with an allowed product claim will not be rejoined. In the event of rejoinder, the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104 - 1.106. If the application containing the rejoined claims is not in condition for allowance, the subsequent Office action may be made final, or, if the application was already under final rejection, the next Office action may be an advisory action.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim

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remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Myron G. Hill whose telephone number is 703-308-4521. The examiner can normally be reached on 9am-6pm Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Housel can be reached on 703-308-4247. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-4242 for regular communications and 703-308-4242 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0196.

Myron G. Hill Patent Examiner June 3, 2003 JEFFREY STUCKER
PRIMARY EXAMINER